

INDEX




[illegible]

	PLAN REFERENCE NO.
	SHEET OF SHEETS

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS
AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS,
REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

[illegible]


PROJECT LICENSED PROFESSIONAL CERTIFICATES

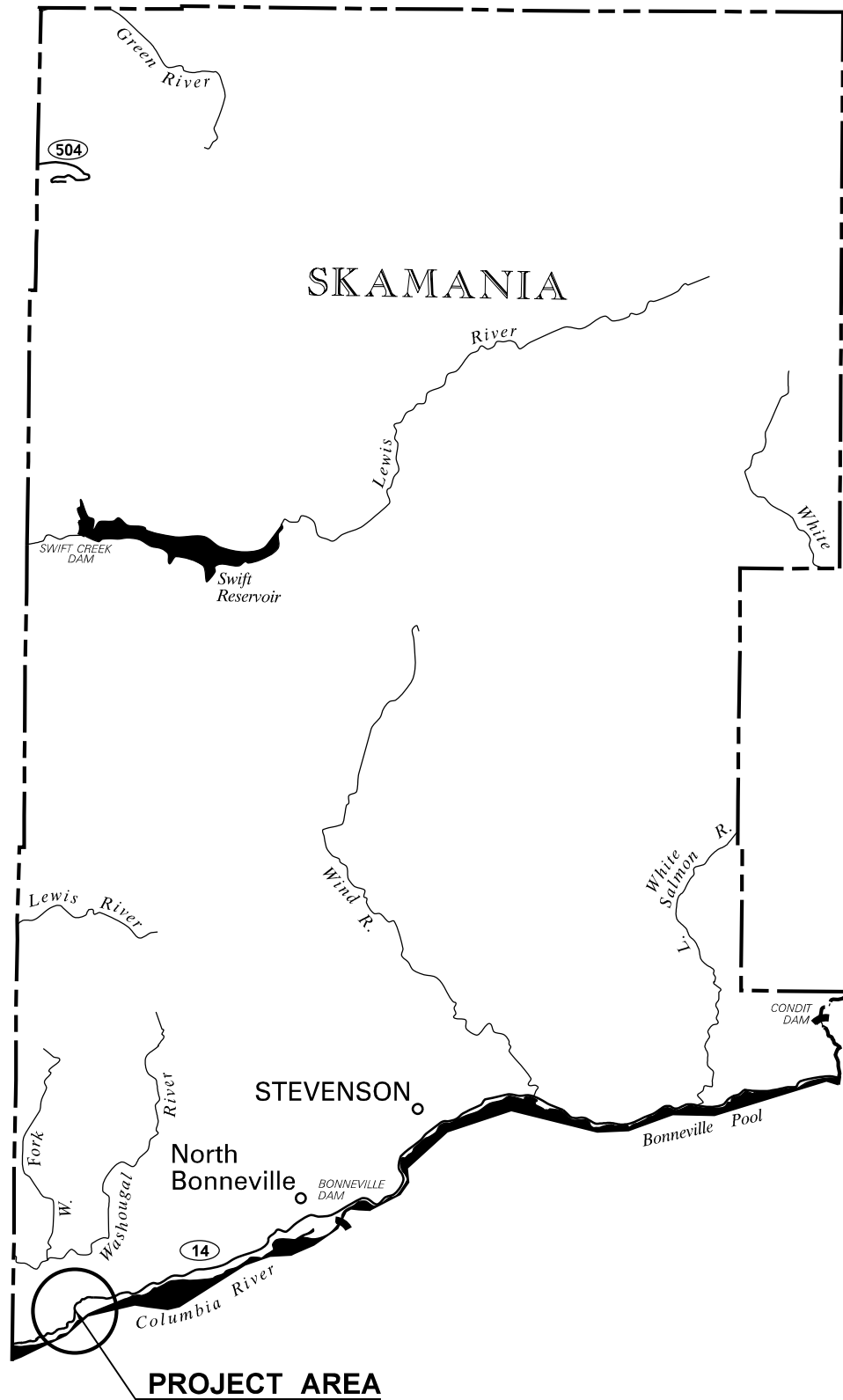
 <p>Mike Briggs</p> <p>Mar 16, 2023</p> <p>AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.</p>	 <p>Marc Fish</p> <p>Mar 16, 2023</p> <p>AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.</p>	 <p>Daniel R. Corlett</p> <p>Mar 21, 2023</p> <p>AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.</p>	
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NOTES:

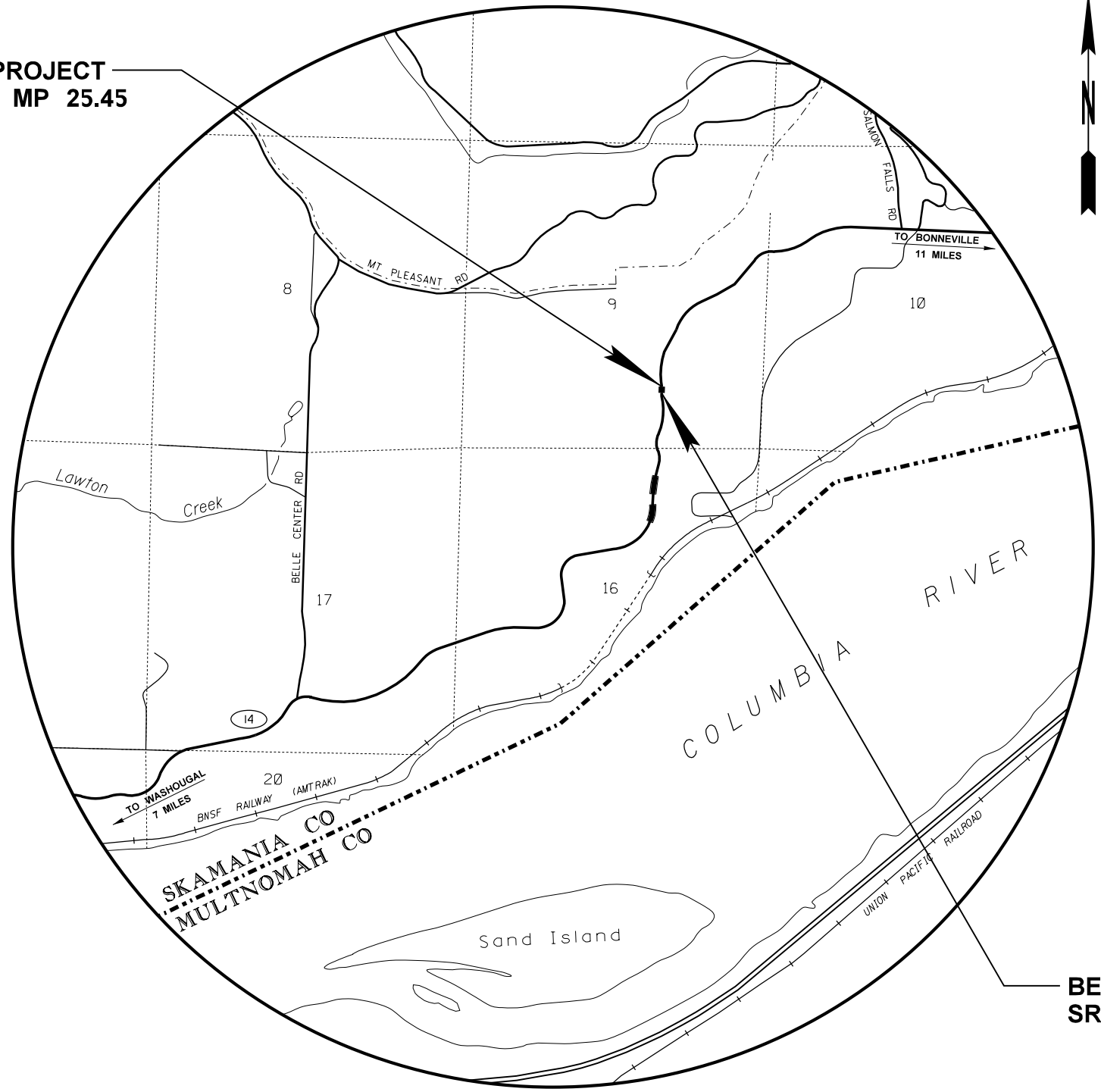
THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION
OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS
OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.

FILE NAME										G:\444302103 - Design\01421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\20-CADD-Plans\20-11 PS&E Sheets\XL6376_PS_CT.dgn										Plot 1	
TIME		11:11:18 AM						REGION NO.		STATE		FED.AID PROJ.NO. NHPP-0014(088)						PLAN REF NO			
DATE		2/2/2023						10		WASH								CT1			
PLOTTED BY		piercea						JOB NUMBER		23X337								SHEET 2 OF 22 SHEETS			
DESIGNED BY		A. PIERCE						CONTRACT NO.				<div><div></div><div>Washington State Department of Transportation</div></div> <div>SR 14 1 MILE W OF SALMON FALLS RD REPAIR DEBRIS FENCE RE-ADVERTISEMENT</div> <div>CERTIFICATE SHEET</div>									
ENTERED BY		A. PIERCE						LOCATION NO.		XL 6376											
CHECKED BY		K. LEI																			
PROJ. ENGR.		M. BRIGGS																			
REGIONAL ADM.		C. FRANCIS																			
				REVISION				DATE				BY									



END PROJECT
SR 14 MP 25.45



BEGIN PROJECT
SR 14 MP 25.35

0 1250 2500
SCALE IN FEET

FILE NAME										G:\444302\03 - Design\001421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\20-CADD-Plans\20-11 PS&E Sheets\XL6376_PS_VM.dgn																																								Plot 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DOT_RGG900

3/7/2023

ITEM NO	TOTAL QUANTITY	SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1 MP 25.35 TO MP 25.45	GROUP 2 THIRD PARTY DAMAGES												
						PREPARATION														
1	LUMP SUM		LUMP SUM	0001	L.S.	MOBILIZATION	L.S.													
						GRADING														
2	100.00		100.00	0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL	100.00													
						EROSION CONTROL AND ROADSIDE PLANTING														
3	6.00		6.00	6403	DAY	ESC LEAD	6.00													
4	470.00		470.00	6453	S.Y.	COMPOST BLANKET	470.00													
5	10000.00		10000.00	6490	DOL	EROSION/WATER POLLUTION CONTROL	10,000.00													
6	470.00		470.00	6431	S.Y.	SEEDING, FERTILIZING AND MULCHING	470.00													
7	600.00		600.00	6535	S.Y.	PREPARATION FOR PLANTING	600.00													
8	10.00		10.00	6552	EACH	PSIPE TREE MIX A	10.00													
9	550.00		550.00	6552	EACH	PSIPE SHRUB MIX A	550.00													
10	1400.00		1400.00	6552	EACH	PSIPE GRASS MIX A	1,400.00													
11	1600.00		1600.00	6552	EACH	PSIPE GRASS MIX B	1,600.00													
12	170.00		170.00	6580	S.Y.	BARK OR WOOD CHIP MULCH	170.00													
13	470.00		470.00		S.Y.	BIODEGRADABLE EROSION CONTROL BLANKET	470.00													
14	1700.00		1700.00		L.F.	STRAW WATTLE	1,700.00													
15	20.00		20.00		HR	GENERAL WEED CONTROL - CHEMICAL APPLICATION	20.00													
16	20.00		20.00		HR	GENERAL WEED CONTROL - HAND OR MECHANICAL	20.00													
						TRAFFIC														
17	300.00		300.00	7448	HR	TRANSPORTABLE ATTENUATOR	300.00													
18	10000.00		10000.00	7450	DOL	REPAIR TRANSPORTABLE ATTENUATOR	10,000.00													
19	840.00		840.00	6993	HR	PORTABLE CHANGEABLE MESSAGE SIGN	840.00													
20	LUMP SUM		LUMP SUM	6973	L.S.	OTHER TEMPORARY TRAFFIC CONTROL DEVICES	L.S.													
21	480.00		480.00	6980	HR	FLAGGERS	480.00													
22	180.00		180.00	6992	HR	OTHER TRAFFIC CONTROL LABOR	180.00													
23	LUMP SUM		LUMP SUM	6974	L.S.	TRAFFIC CONTROL SUPERVISOR	L.S.													
24	25000.00		25000.00	7572	DOL	WORK ZONE SAFETY CONTINGENCY	25,000.00													
25	72.00		72.00	6982	S.F.	CONSTRUCTION SIGNS CLASS A	72.00													
						OTHER ITEMS														
26	10000.00		10000.00	7715	DOL	FORCE ACCOUNT VISUAL MITIGATION	10,000.00													
27	48000.00		48000.00	7715	DOL	FORCE ACCOUNT ROCK DOWELS TYPE 1	48,000.00													
28	5000.00		5000.00	7715	DOL	FORCE ACCOUNT GROUT EXCEEDANCE	5,000.00													
29	10000.00		10000.00	7480	DOL	ROADSIDE CLEANUP	10,000.00													
30	5.00		5.00	7725	DOL	REIMBURSEMENT FOR THIRD PARTY DAMAGE		5.00												
31	-1.00		-1.00	7728	DOL	MINOR CHANGE	-1.00													
32	-1.00		-1.00	7732	DOL	AGGREGATE COMPLIANCE PRICE ADJUSTMENT	-1.00													
33	LUMP SUM		LUMP SUM	7736	L.S.	SPCC PLAN	L.S.													
34	3400.00		3400.00		S.F.	PINNED WIRE MESH SLOPE STABILIZATION SYSTEM	3,400.00													
35	LUMP SUM		LUMP SUM		L.S.	REPLACE GEOBRUGG VX140 DEBRIS FLOW FENCE	L.S.													

GROUP	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
LEGEND	1	014	300136	**	FEDERAL,STATE
	2	014	300136	**	STATE

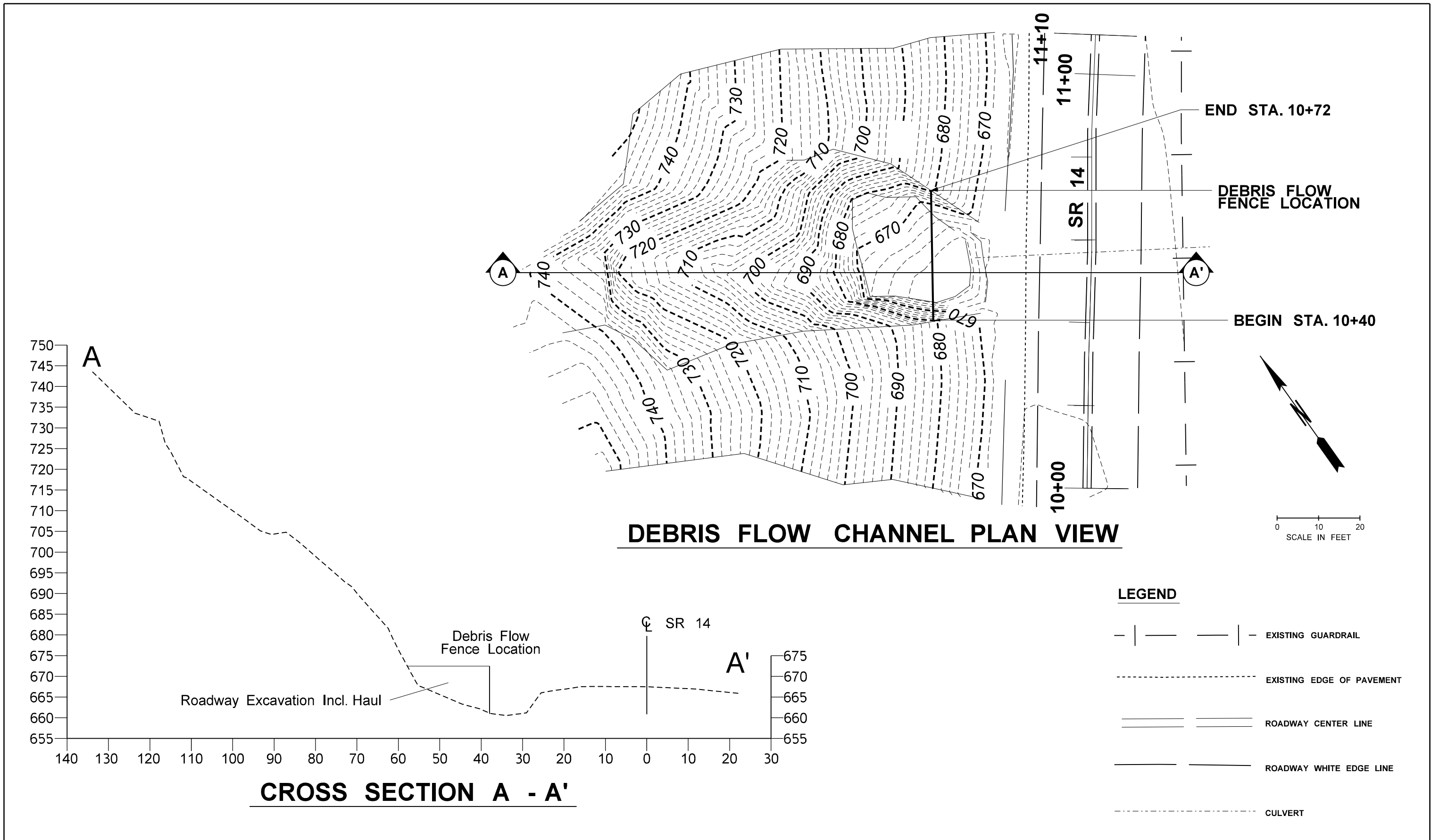
			REGION	STATE	FEDERAL AID PROJECT. NO.															
			10	WA	NHPP-0014(088)															
			JOB NUMBER																	
			23X337/3																	
			CONTRACT NO																	
			000000																	
DATE			REVISION			BY														



SQ1

SR 14
1 MILE W OF SALMON FALLS RD
REPAIR DEBRIS FENCE RE-ADVERTISEMENT

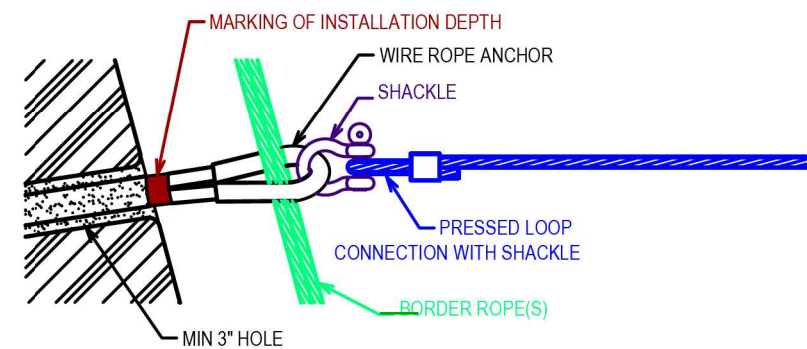
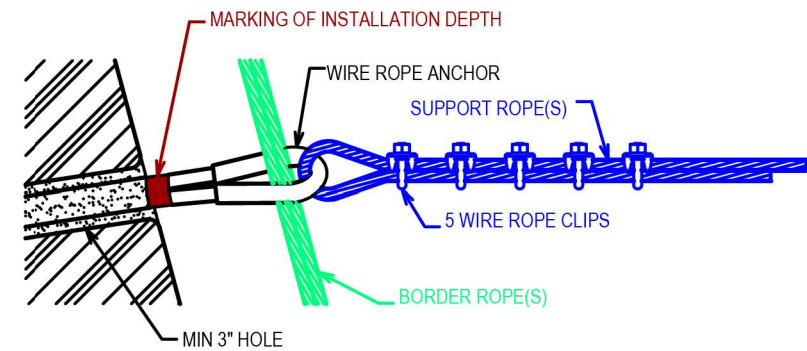
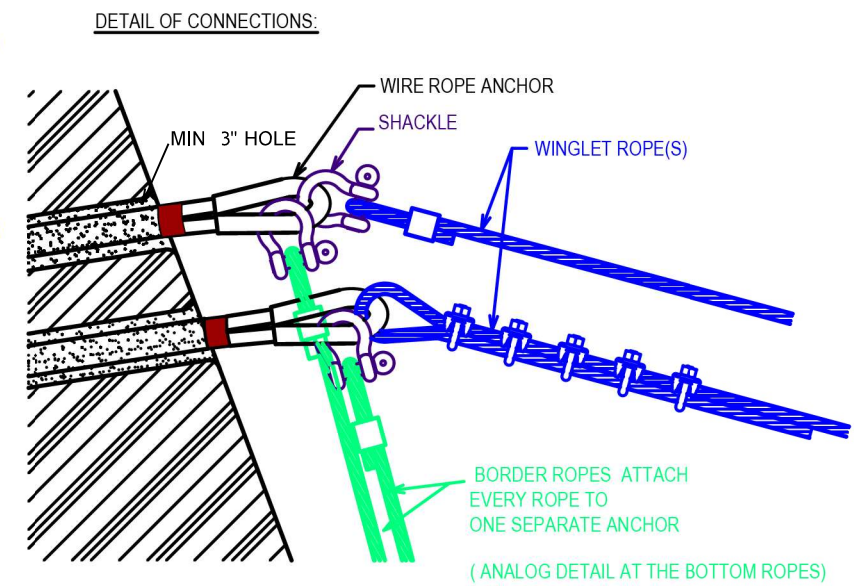
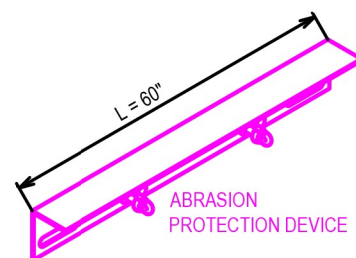
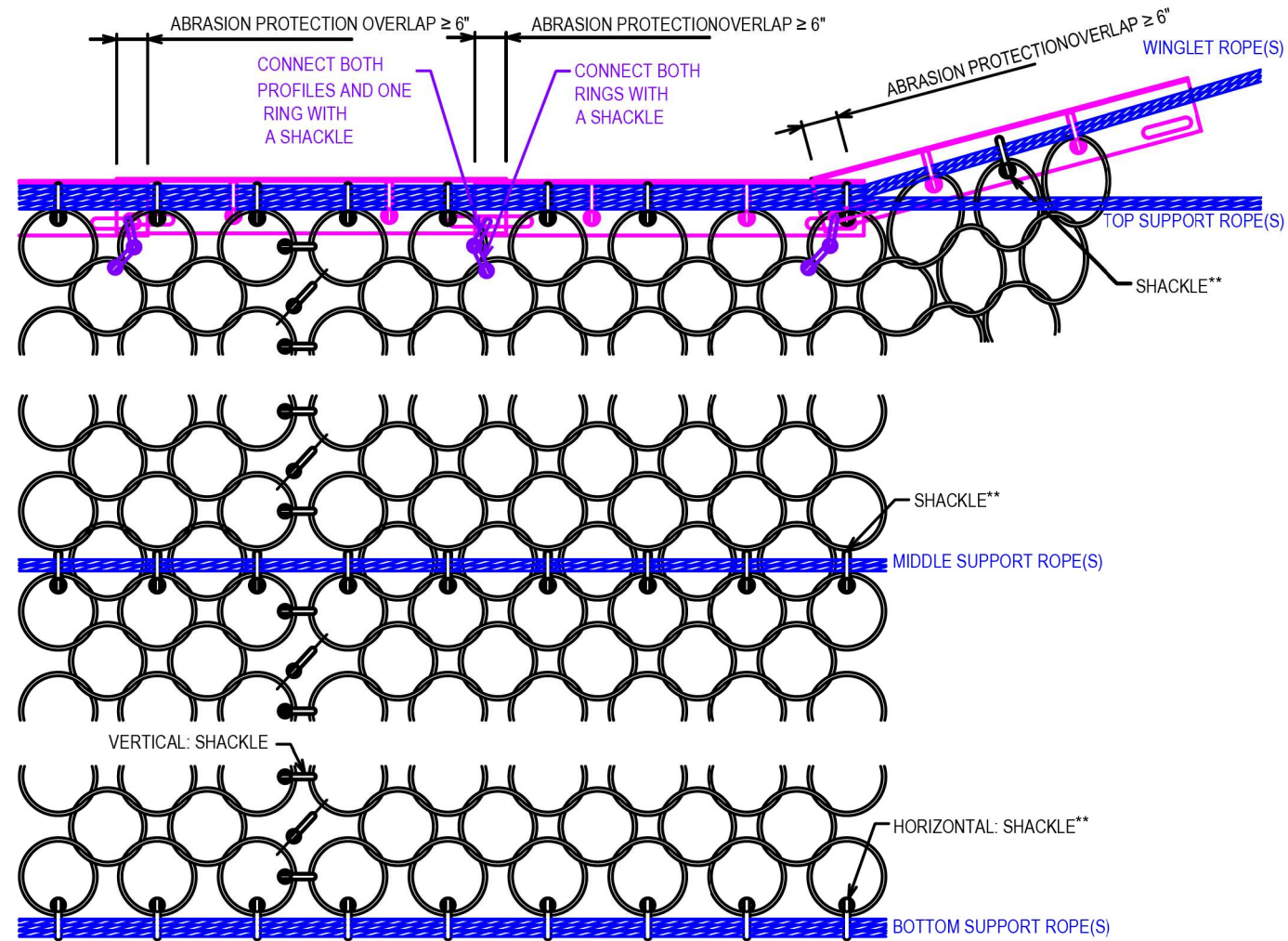
SUMMARY OF QUANTITIES

SHEET
4
OF
22
SHEETS



FILE NAME G:\444302\03 - Design\001421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\22-PS&E\22-1 PS&E Transmittals, Reviews\Electronic Design Files\0005_XL6376_PS_DFD_001.dgn										Plot 1			
TIME 8:57:46 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. NHPP-0014(088)			<div>SEE SHEET CT1</div> <div>DATE</div> <div>P.E. STAMP BOX</div>	<div>DATE</div> <div>P.E. STAMP BOX</div>	 <div>Washington State Department of Transportation</div>	<div>SR 14 1 MILE W OF SALMON FALLS RD REPAIR DEBRIS FENCE RE-ADVERTISEMENT</div>	PLAN REF NO DFD1
DATE 3/8/2023													SHEET 5 OF 22 SHEETS
PLOTTED BY piercea													
DESIGNED BY S. JOHNSTON													
ENTERED BY A. PIERCE				JOB NUMBER 23X337		LOCATION NO. XL 6376							
CHECKED BY K. LEI				CONTRACT NO.									
PROJ. ENGR. M. BRIGGS													
REGIONAL ADM. C. FRANCIS				REVISION	DATE	BY							DEBRIS FLOW FENCE DETAIL



Plot 2
AN REF NO
DFD2
SHEET
6
OF
22
SHEETS

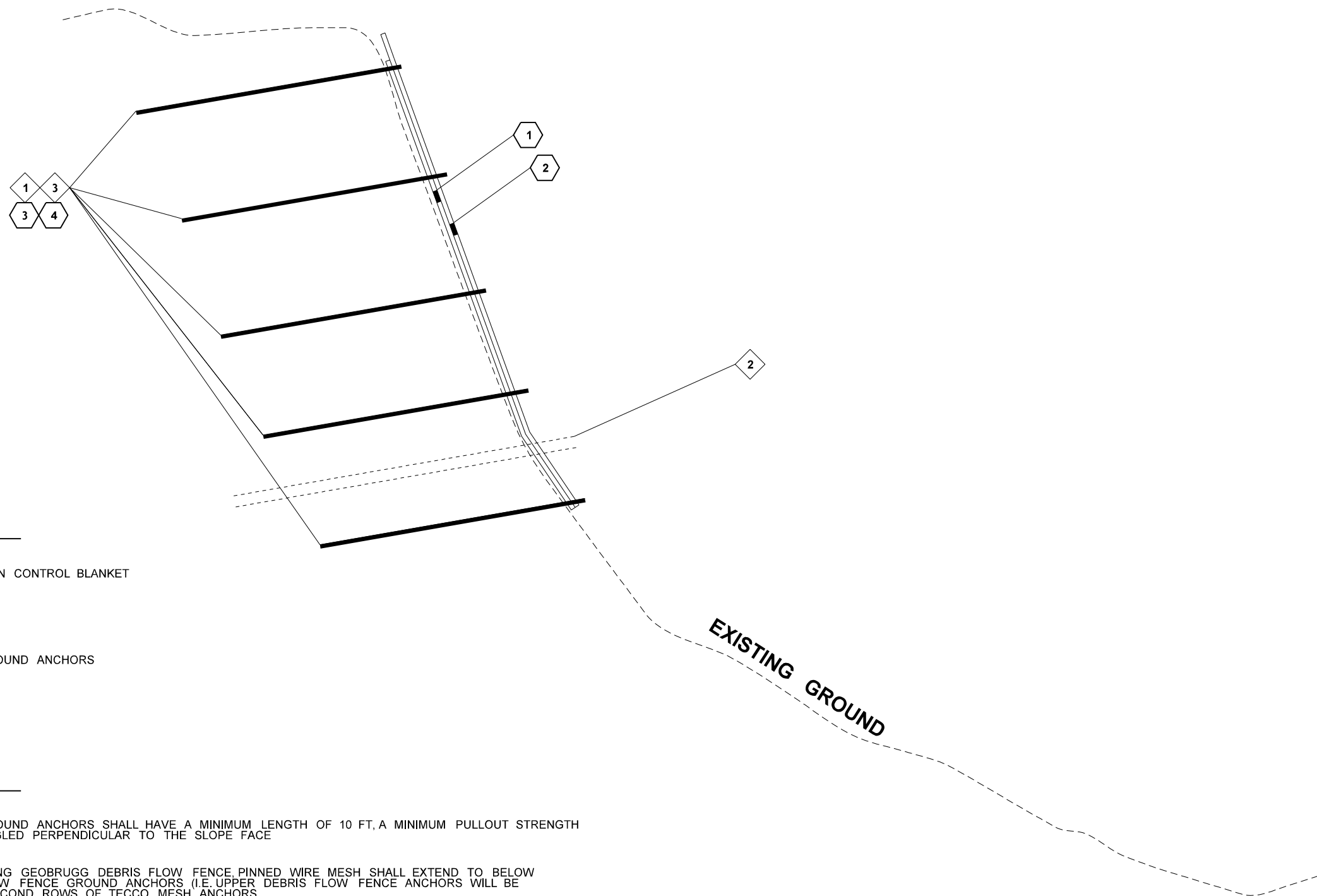


DEBRIS FLOW FENCE DETAIL

NOTES

** SHACKLES CAN BE REUSED IF IN GOOD CONDITION.

FILE NAME										G:\444302\03 - Design\01421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\22-PS&E\22-1 PS&E Transmittals, Reviews\Electronic Design Files\007-XL6376_PS_DFD_003.dgn										Plot 3	
TIME		9:01:20 AM						REGION NO.		STATE		FED.AID PROJ.NO. NHPP-0014(088)				 Washington State Department of Transportation		SR 14 1 MILE W OF SALMON FALLS RD REPAIR DEBRIS FENCE RE-ADVERTISEMENT		PLAN REF NO	
DATE		3/8/2023						10		WASH										DFD3	
PLOTTED BY		piercea						JOB NUMBER				23X337		SEE SHEET CT1 DATE		P.E. STAMP BOX DATE		P.E. STAMP BOX DATE		SHEET 7 OF 22 SHEETS	
DESIGNED BY		S. JOHNSTON						CONTRACT NO.													
ENTERED BY		A. PIERCE						LOCATION NO.		XL 6376						DEBRIS FLOW FENCE DETAIL					
CHECKED BY		K. LEI																			
PROJ. ENGR.		M. BRIGGS																			
REGIONAL ADM.		C. FRANCIS																			
				REVISION				DATE				BY									



LEGEND

- 1 BIODEGRADABLE EROSION CONTROL BLANKET
- 2 PINNED WIRE MESH
- 3 PINNED WIRE MESH GROUND ANCHORS
- 4 TYPE 1 ROCK DOWELS

NOTES

- 1 PINNED WIRE MESH GROUND ANCHORS SHALL HAVE A MINIMUM LENGTH OF 10 FT, A MINIMUM PULLOUT STRENGTH OF 25 KIPS, AND BE ANGLED PERPENDICULAR TO THE SLOPE FACE
- 2 AT LOCATION OF EXISTING GEOBRUGG DEBRIS FLOW FENCE, PINNED WIRE MESH SHALL EXTEND TO BELOW THE UPPER DEBRIS FLOW FENCE GROUND ANCHORS (I.E. UPPER DEBRIS FLOW FENCE ANCHORS WILL BE BETWEEN FIRST AND SECOND ROWS OF TECCO MESH ANCHORS)
- 3 TYPE 1 ROCK DOWELS TO BE PLACED AT THE DIRECTION OF THE ENGINEER IF NEEDED. ROCK DOWELS SHALL BE A MINIMUM OF 10 LF IN LENGTH AND SHALL HAVE A MINIMUM PULLOUT CAPACITY OF 25 KIPS.

FILE NAMEG:\444302\03 - Design\001421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\22-PS&E\22-1 PS&E Transmittals, Reviews\Electronic Design Files\0008_XL6376_PS_PMD_001.dgn										Plot 7	
TIME	11:50:50 AM					REGION NO.	STATE	FED.AID PROJ.NO. NHPP-0014(088)		PLAN REF NO PMD1	
DATE	3/14/2023					10	WASH				
PLOTTED BY	PierceA					JOB NUMBER		LOCATION NO. XL 6376		SHEET 8 OF 22 SHEETS	
DESIGNED BY	S. JOHNSTON					23X337					
ENTERED BY	A. PIERCE					CONTRACT NO.		DATE		PINNED WIRE MESH DETAIL	
CHECKED BY	K. LEI										
PROJ. ENGR.	M. BRIGGS							DATE			
REGIONAL ADM.	C. FRANCIS										
		REVISION		DATE	BY						

Washington State

Department of Transportation

2655

Licensed Geologist

Marc F. Fish

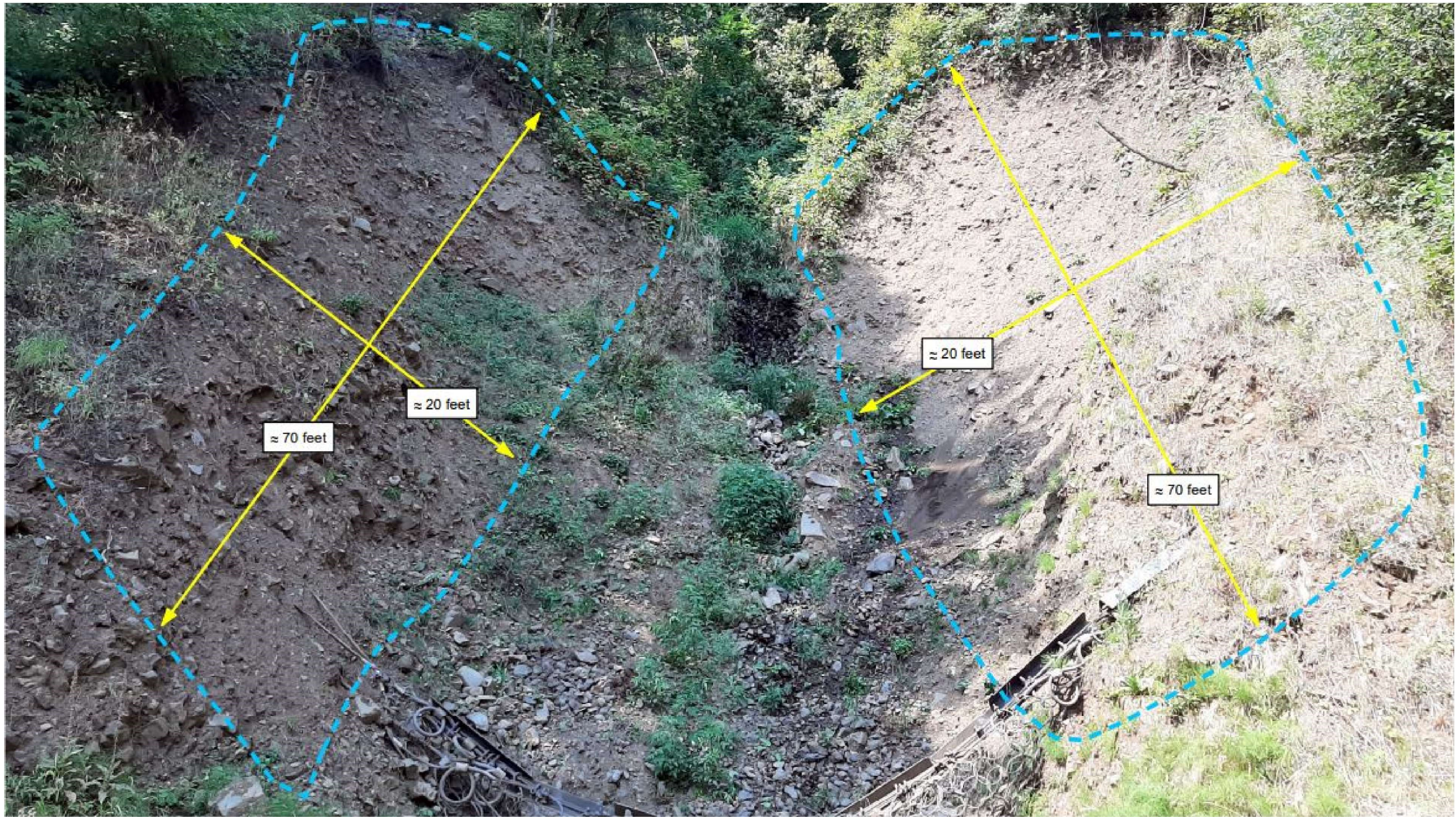
SEE SHEET CT1

DATE


P.E. STAMP BOX

P.E. STAMP BOX

DATE





LEGEND

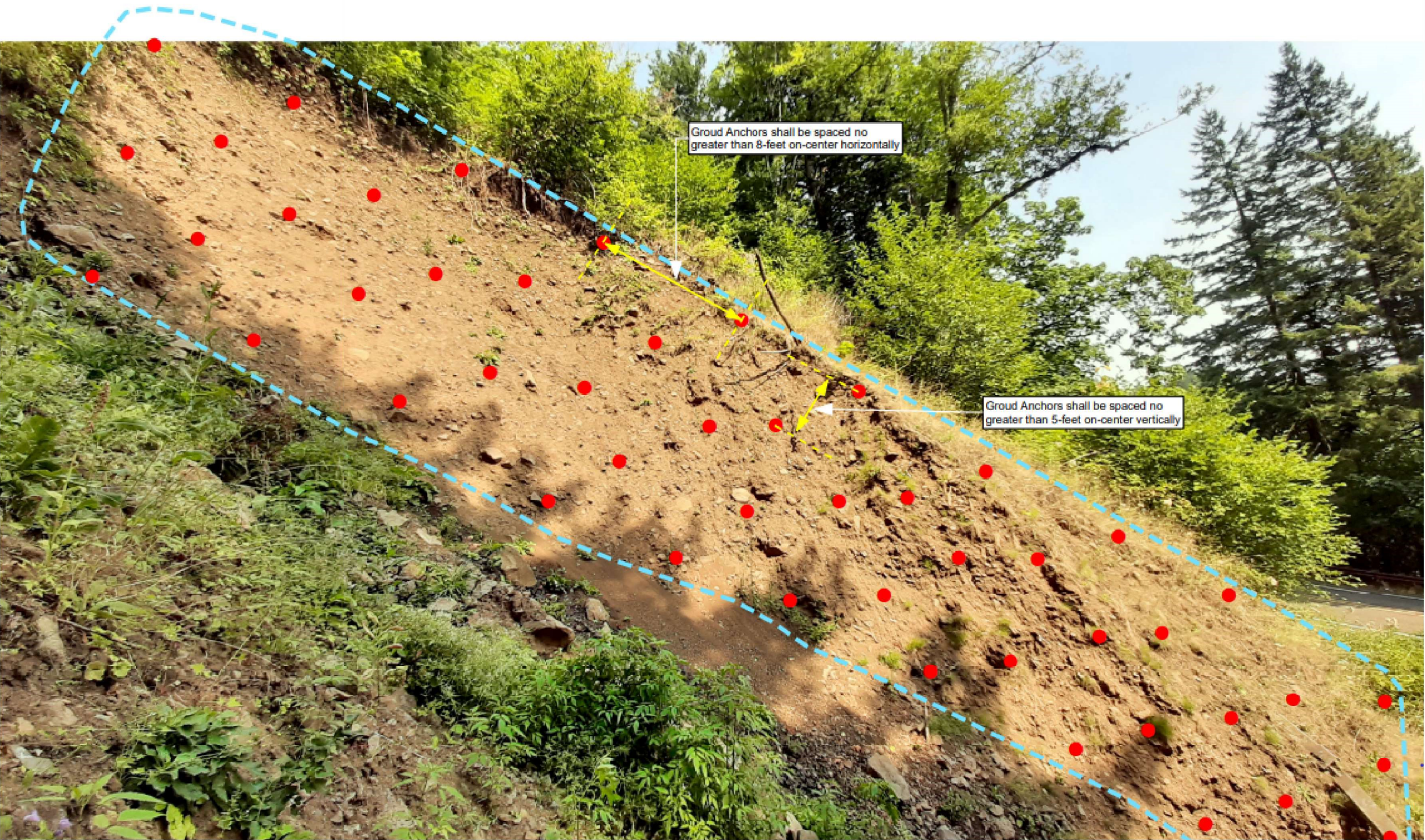
 PINNED WIRE MESH SYSTEM LIMITS

NOTES



1. TREES TO BE REMOVED BEYOND THE LIMITS OF THE DEBRIS CHUTE SHALL BE IDENTIFIED BY THE ENGINEER.
2. THE BROW OF THE DEBRIS CHUTE SHALL BE ROUNDED TO ELIMINATE OVERHANGING MATERIAL PRIOR TO INSTALLATION OF EROSION CONTROL BLANKET. SEE SPECIAL PROVISIONS "ROADSIDE CLEANUP."

PINNED WIRE MESH DETAIL


FILE NAMEG:\444302\03 - Design\001421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\22-PS&E\22-1 PS&E Transmittals, Reviews\Electronic Design Files\0009_XL6376_PS_PMD_002.dgn										Plot 4	
TIME11:57:07 AM					REGION NO.10	STATEWASH	FED.AID PROJ.NO. NHPP-0014(088)			PLAN REF NO PMD2	
DATE3/14/2023					JOB NUMBER23X337					SHEET 9 OF 22 SHEETS	
PLOTTED BYPierceA					CONTRACT NO.		LOCATION NO. XL 6376				
DESIGNED BYS. JOHNSTON											
ENTERED BYA. PIERCE											
CHECKED BYK. LEI											
PROJ. ENGR.M. BRIGGS											
REGIONAL ADM.C. FRANCIS											
REVISION				DATE	BY						
 Washington State Department of Transportation										SR 14 1 MILE W OF SALMON FALLS RD REPAIR DEBRIS FENCE RE-ADVERTISEMENT	
										PINNED WIRE MESH DETAIL	



LEGEND

-  PINNED WIRE MESH SYSTEM LIMITS
-  PINNED WIRE MESH SYSTEM GROUND ANCHORS

PINNED WIRE MESH DETAIL

FILE NAME				G:\444302\03 - Design\001421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\22-PS&E\22-1 PS&E Transmittals, Reviews\Electronic Design Files\001421D_XL6376_PS_PMD_004.dgn										Plot 6			
TIME		12:41:38 PM						REGION NO.		STATE		FED.AID PROJ.NO.				PLAN REF NO	
DATE		3/14/2023						10		WASH		NHPP-0014(088)				PMD4	
PLOTTED BY		PierceA						JOB NUMBER								SHEET 11 OF 22 SHEETS	
DESIGNED BY		S. JOHNSTON						23X337									
ENTERED BY		A. PIERCE															
CHECKED BY		K. LEI															
PROJ. ENGR.		M. BRIGGS						CONTRACT NO.				LOCATION NO.				SR 14 1 MILE W OF SALMON FALLS RD REPAIR DEBRIS FENCE RE-ADVERTISEMENT	
REGIONAL ADM.		C. FRANCIS										XL 6376					
REVISION				DATE		BY						Marc F. Fish		SEE SHEET CT1		DATE	
												P.E. STAMP BOX				P.E. STAMP BOX	
																DATE	
																PINNED WIRE MESH DETAIL	
Washington State Department of Transportation																	

CONSTRUCTION NOTES

- 1 SURFACE PREPARATION PRIOR TO COMPOST BLANKET PLACEMENT. SMOOTH SLOPE SURFACE AS DIRECTED BY ENGINEER. REMOVE ALL LOOSE ROCKS, ROOTS, VEGETATION AND OTHER DEBRIS. PROTECT EXISTING VEGETATION AS FLAGGED BY ENGINEER. SEE CONTRACT PROVISIONS.
- 2 INSTALL 8-INCH STRAW WATTLES AT APPROXIMATELY 3-FT. INTERVALS ON SLOPE FOLLOWING CONTOURS, AS DIRECTED BY ENGINEER. SEE CONTRACT PROVISIONS AND DETAILS.
- 3 COMPOST BLANKET, 3-INCH SETTLED DEPTH. PNEUMATIC OR CONVEYER APPLICATION ONLY. SEE SECTION 8-01.3(4) OF THE STANDARD SPECIFICATIONS AND CONTRACT PROVISIONS.
- 4 SEEDING, FERTILIZING AND MULCHING. SEE SECTION 8-02.3(9) OF THE CONTRACT PROVISIONS.
- 5 BIODEGRADABLE EROSION CONTROL BLANKET. ANCHOR ABOVE UPPER EDGE OF SLOPE. SEE CONTRACT PROVISIONS AND DETAILS.
- 6 SITE AND SURFACE PREPARATION FOR RESTORATION PLANTING. REMOVE LOOSE ROCKS, ROOTS, AND OTHER DEBRIS FROM DISTURBED AREAS AS STAKED BY ENGINEER. LOOSEN ANY COMPACTED SOIL WITH HAND TOOLS. PRUNE BROKEN STEMS AND BRANCHES.
- 7 BARK MULCH, 3-INCH SETTLED DEPTH. APPLY TO DISTURBED AREAS AS STAKED BY ENGINEER, AFTER SURFACE PREPARATION FOR RESTORATION (NOTE 6). SEE CONTRACT PROVISIONS.

SUMMARY OF QUANTITIES*

ITEM	UNIT	QTY
STRAW WATTLES	LF	1700
SEEDING, FERTILIZING AND MULCHING	SY	470
COMPOST BLANKET	SY	470
BIODEGRADABLE EROSION CONTROL BLANKET	SY	470
BARK MULCH	SY	170

*APPROXIMATE QUANTITIES, CONTRACTOR SHALL VERIFY QUANTITIES IN THE FIELD

FILE NAME				G:\Roadside\01_projects\014\11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Debris Flow Fence 2021\CAD\MT0666 SR14 Debris Fence Roadside PS 2.dgn				Plot 1	
TIME				2:42:57 PM				PLAN REF NO	
DATE				3/9/2023				NA1	
PLOTTED BY				knappb				SHEET	
DESIGNED BY				B. KNAPP				12	
ENTERED BY				B. KNAPP				OF	
CHECKED BY				D. CORLETT				22	
PROJ. ENGR.				M. BRIGGS				SHEETS	
REGIONAL ADM.				C. FRANCIS				REVISION	
				DATE				BY	
				REGION NO.				STATE	
				10				WASH	
				JOB NUMBER				23X337	
				CONTRACT NO.				LOCATION NO.	
								XL 6376	
				FED.AID PROJ.NO.				SEE SHEET CT1	
				NHPP-0014(088)				DATE	
				P.E. STAMP BOX				DATE	
				P.E. STAMP BOX				DATE	
				Washington State Department of Transportation				SR 14	
								1 MILE W OF SALMON FALLS RD	
								REPAIR DEBRIS FENCE	
								RE-ADVERTISEMENT	
								SOIL PREPARATION	

CONSTRUCTION NOTES

- 1

SURFACE PREPARATION PRIOR TO COMPOST BLANKET PLACEMENT. SMOOTH SLOPE SURFACE AS DIRECTED BY ENGINEER. REMOVE ALL LOOSE ROCKS, ROOTS, VEGETATION AND OTHER DEBRIS. PROTECT EXISTING VEGETATION AS FLAGGED BY ENGINEER. SEE CONTRACT PROVISIONS.
- 2

INSTALL 8-INCH STRAW WATTLES AT APPROXIMATELY 3-FT. INTERVALS ON SLOPE FOLLOWING CONTOURS, AS DIRECTED BY ENGINEER. SEE CONTRACT PROVISIONS AND DETAILS.
- 3

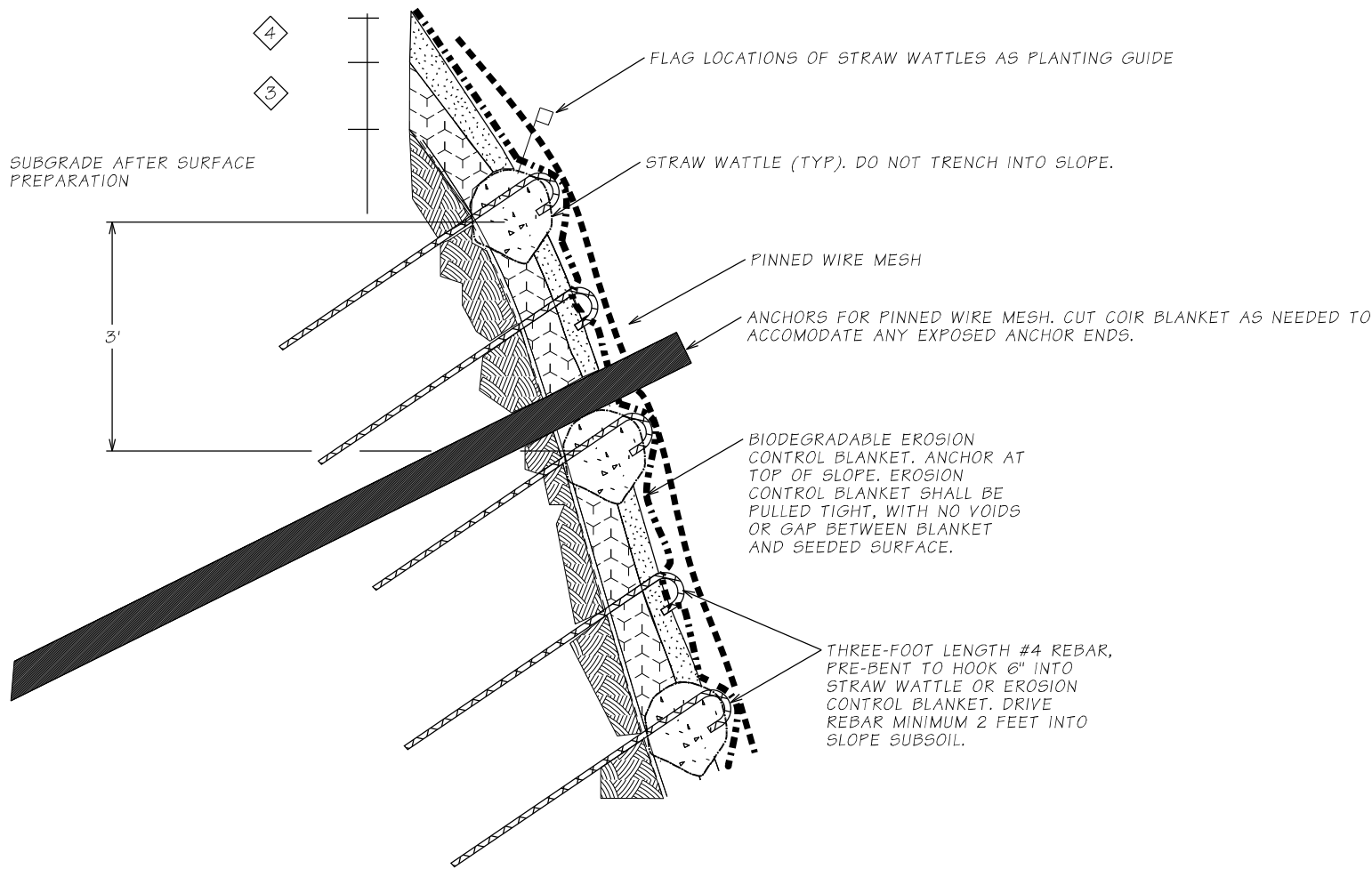
COMPOST BLANKET, 3-INCH SETTLED DEPTH. PNEUMATIC OR CONVEYER APPLICATION ONLY. SEE SECTION 8-01.3(4) OF THE STANDARD SPECIFICATIONS AND CONTRACT PROVISIONS.
- 4

SEEDING, FERTILIZING AND MULCHING. SEE SECTION 8-02.3(9) OF THE CONTRACT PROVISIONS.
- 5

BIODEGRADABLE EROSION CONTROL BLANKET. ANCHOR ABOVE UPPER EDGE OF SLOPE. SEE CONTRACT PROVISIONS AND DETAILS.
- 6

SITE AND SURFACE PREPARATION FOR RESTORATION PLANTING. REMOVE LOOSE ROCKS, ROOTS, AND OTHER DEBRIS FROM DISTURBED AREAS AS STAKED BY ENGINEER. LOOSEN ANY COMPACTED SOIL WITH HAND TOOLS. PRUNE BROKEN STEMS AND BRANCHES.
- 7


BARK MULCH, 3-INCH SETTLED DEPTH. APPLY TO DISTURBED AREAS AS STAKED BY ENGINEER, AFTER SURFACE PREPARATION FOR RESTORATION (NOTE 6). SEE CONTRACT PROVISIONS.

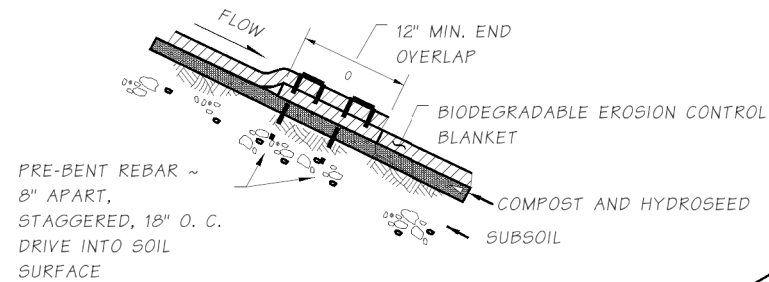


2 3 4 5

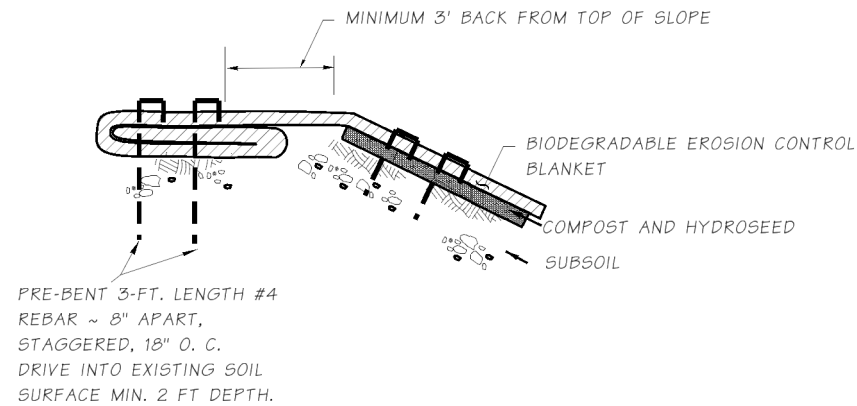
COMPOST, SEEDING AND EROSION CONTROL BLANKET PLACEMENT

1

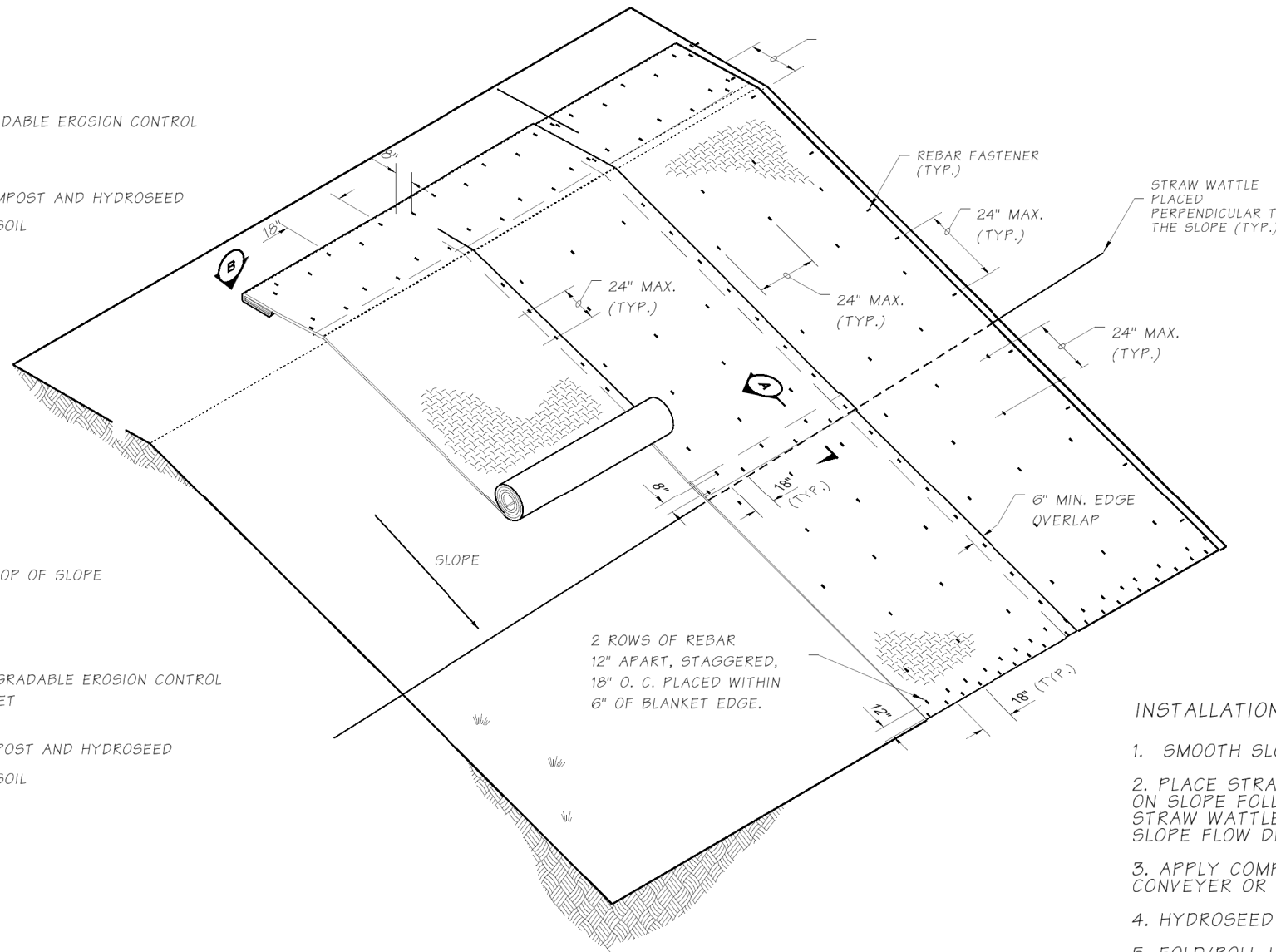
FILE NAME		C:\Users\piercea\OneDrive - Washington State Department of Transportation\Desktop\ipse sheet.dgn											Washington State Department of Transportation	SR 14 1 MILE W OF SALMON FALLS RD REPAIR DEBRIS FENCE RE-ADVERTISEMENT SOIL PREPARATION	Plot 2
TIME	1:08:29 PM					REGION NO.	STATE	FED.AID PROJ.NO. NHPP-0014(088)			PLAN REF NO NA2				
DATE	3/14/2023					10	WASH								
PLOTTED BY	PierceA					JOB NUMBER 23X337									
DESIGNED BY	B KNAPP					CONTRACT NO.		LOCATION NO. XL 6376		SEE SHEET CT1 DATE			SHEET 13 OF 22 SHEETS		
ENTERED BY	B KNAPP									DATE					
CHECKED BY	D CORLETT									DATE					
PROJ. ENGR.	M. BRIGGS									DATE					
REGIONAL ADM.	C. FRANCIS									DATE					
						REVISION		DATE		BY					



SHINGLE SPLICE ~ SECTION A



TOP ANCHOR ~ SECTION B



ISOMETRIC VIEW

INSTALLATION STEPS:

1. SMOOTH SLOPE AS DIRECTED BY ENGINEER.
2. PLACE STRAW WATTLE AT APPROXIMATELY 3-FT. INTERVALS ON SLOPE FOLLOWING CONTOURS AS DIRECTED BY ENGINEER. STRAW WATTLE SHALL BE PLACED PERPENDICULAR TO THE SLOPE FLOW DIRECTION.
3. APPLY COMPOST TO SLOPE BETWEEN STRAW WATTLES USING CONVEYER OR PNEUMATIC METHODS.
4. HYDROSEED PER CONTRACT PROVISIONS.
5. FOLD/ROLL UPPER EDGE OF EROSION CONTROL BLANKET UNDER AT TOP OF SLOPE TO FORM A MINIMUM OF FOUR LAYERS 20 INCHES WIDE. PIN FOLDED LAYERS INTO EXISTING SOIL TO A MINIMUM DEPTH OF 2 FT. WITH 3-FT. LENGTH, PRE-BENT #4 REBAR AS SHOWN IN DETAIL.
6. ROLL EROSION CONTROL BLANKET OVER TOP EDGE AND DOWN SLOPE OVER WATTLES, COMPOST LAYER AND SEEDING IN A CONTROLLED MANNER, TAKING CARE TO REMOVE EXCESS SLACK, AND TAKING CARE NOT TO STRETCH BLANKET.
7. STAKE BLANKET THROUGH COMPOST INTO SLOPE WITH NO GAPS BETWEEN THE BLANKET AND THE HYDROSEED/COMPOST LAYER.
8. MORE THAN ONE FASTENER PER 4 SQ. FT. MAY BE REQUIRED DUE TO CONDITIONS SUCH AS BLANKET COMPOSITION, SOIL TYPE, SURFACE UNIFORMITY, AND SLOPE STEEPNESS.
9. SEE CONTRACT PROVISIONS 8-01.3(3) AND 9-14.6(2).

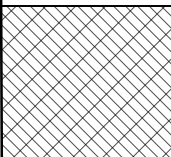


BIODEGRADABLE EROSION CONTROL BLANKET PLACEMENT

NOT TO SCALE

4

FILE NAME	G:\Roadside\01_projects\014\11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Debris Flow Fence 2021\CAD\MT0666 SR14 Debris Fence Roadside PS 2.dgn	REGION NO.	STATE	FED.AID PROJ.NO.	DATE	Washington State Department of Transportation	SR 14 1 MILE W OF SALMON FALLS RD REPAIR DEBRIS FENCE RE-ADVERTISEMENT SOIL PREPARATION	Plot 1 PLAN REF NO NA4 SHEET 15 OF 22 SHEETS
TIME	2:46:16 PM	10	WASH	NHPP-0014(088)				
DATE	3/9/2023	JOB NUMBER	23X337	LOCATION NO.	XL 6376			
PLOTTED BY	knappb	CONTRACT NO.						
DESIGNED BY	B KNAPP							
ENTERED BY	B. KNAPP							
CHECKED BY	D. CORLETT							
PROJ. ENGR.	M. BRIGGS							
REGIONAL ADM.	C. FRANCIS	REVISION	DATE	BY				

ROADSIDE RESTORATION PLANT MATERIAL SCHEDULE


Symbol	Plant Code	Botanical Name	Common Name	Height	Root Type	A.S.N.S.	Spacing	Layout	Notes	Total in mix *	
N/A	TREES (TMR)	Pseudotsuga menziesii	Douglas Fir	#7 min. (3' min.)	Cont.	4.7.2 Type 4	where staked	na	Min. 24" spread. Unsheared. Do not stake.	10	
	SHRUB Mix A (SMA)	Amelanchier alnifolia	Western Serviceberry	18"-36"	B.R.	3.4.2 Type 3	where staked	na	4 canes min.	50	
		Holodiscus discolor	Creambush Oceanspray	18"-36"	B.R.	3.4.2 Type 3	where staked	na	4 canes min.	50	
		Mahonia aquifolium	Tall Oregon Grape	#1	Cont.	5.7.2 Type 4	where staked	na	3 stems min.	100	
		Polystichum munitum	Sword Fern	#1	Cont.		where staked	na	5 fronds min.	100	
		Symphoricarpos albus	Snowberry	18"-36"	B.R.	3.3.2 Type 2	where staked	na	4 canes min.	250	
	GRASS MIX A (GMA)	Elymus glaucus	Blue Wild Rye		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length/ 4" min top growth	600	
		Festuca idahoensis	Idaho Fescue		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length/ 4" min top growth	450	
		Symphoricarpous albus	Snowberry	6"-12"	10 ci Plug or B.R.		24" oc	Triang.	5" min. root length/ 6" min top growth	350	
	GRASS MIX B (GMB)	Achillea millefolium	Yarrow		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length	100	
		Anaphalis margaritacea	Pearly Everlasting		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length	100	
		Elymus glaucus	Blue Wild Rye		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length/ 4" min top growth	750	
		Festuca idahoensis	Idaho Fescue		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length/ 4" min top growth	550	
		Koeleria macrantha	Prairie Junegrass		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length/ 4" min top growth	100	

B&B	Balled and Burlaped
B.R.	Bare Root
Cont.	Container
O.C.	On Center
A.S.N.S.	American Standards for Nursery Stock

*APPROXIMATE QUANTITIES, CONTRACTOR SHALL VERIFY QUANTITIES IN THE FIELD

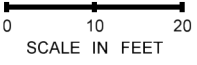
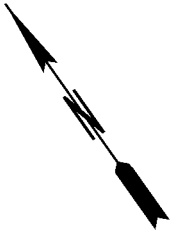
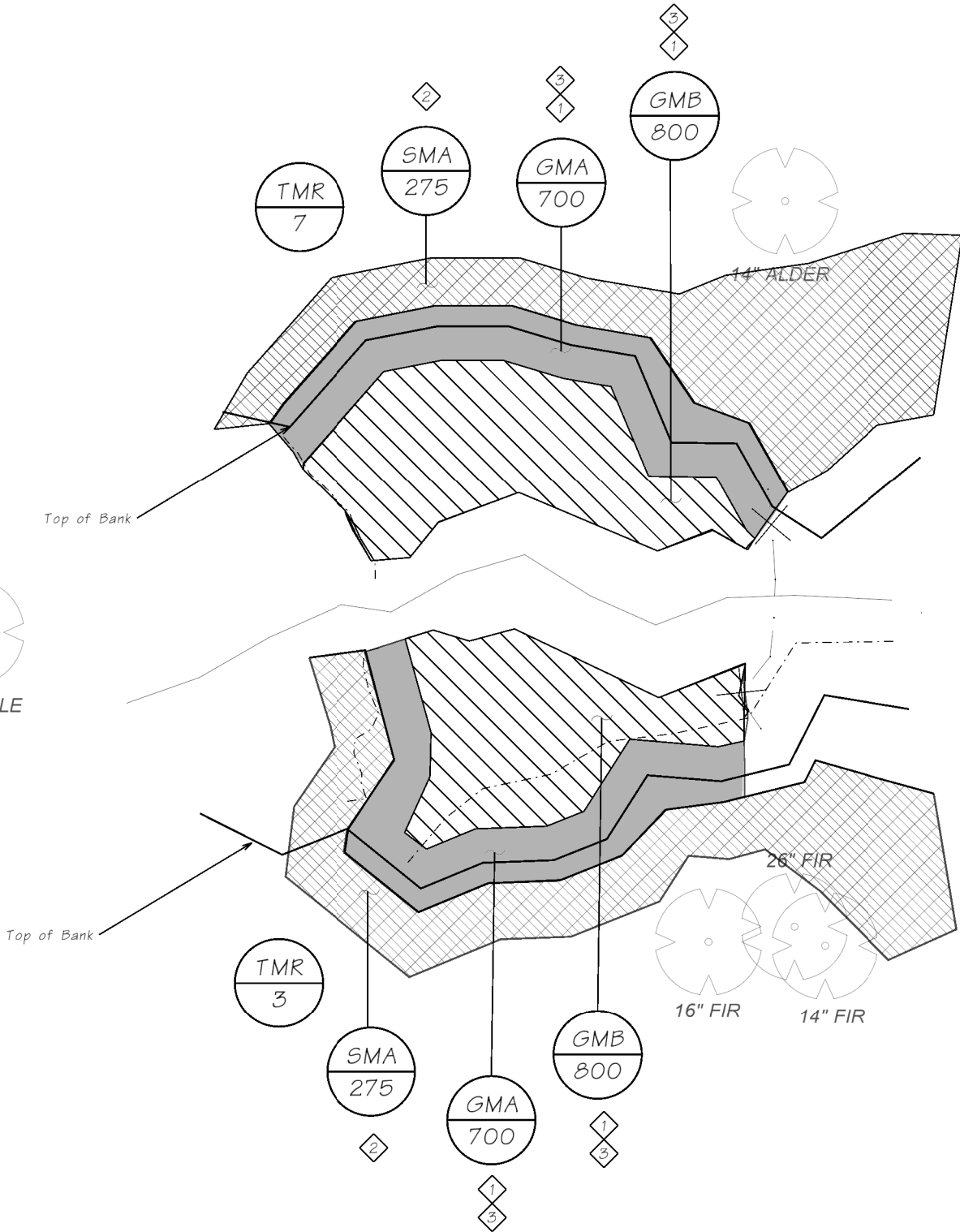
PLANTING NOTES:



1. All material shall meet the requirements of the American Standard Nursery Stock, April 14, 2014. Conflicts between the ASNS and these specifications, then these specifications shall apply. A letter of compliance with the "American Standard of Nursery Stock" is required from the supplier for all plant material.
2. All plant material shall be nursery grown stock. Container plant material shall be well rooted in pot and meet requirements of Section 9-14.7(1) and 9-14.7(2) of the contract provisions.
3. Tree heights shall be measured at the midpoint between the uppermost whorl and the tip of the leader.
4. Planting areas shall be staked by contractor and approved by the Engineer prior to planting.
5. No plant material shall be planted until it has been inspected and approved for planting by the Engineer.
6. Plant material shall be stored and handled per section 9-14.7(3) of the contract provisions.
7. Plant material shall be installed per section 8-02.3(8) of the standard specifications and contract provisions.
8. Plants to be randomly mixed within designated plant groups as approved by the Engineer unless specified otherwise. Completely remove burlap, wire baskets, plastic, string or wire lacing from the plant material and planting hole. Roots of bareroot stock shall not be bunched, curled, twisted, or unreasonably bent when placed in the planting hole. Loosen sides and roots of container plants prior to installation, cut circling roots. All plant crowns to be free of bark mulch.
9. See planting details and contract provisions.

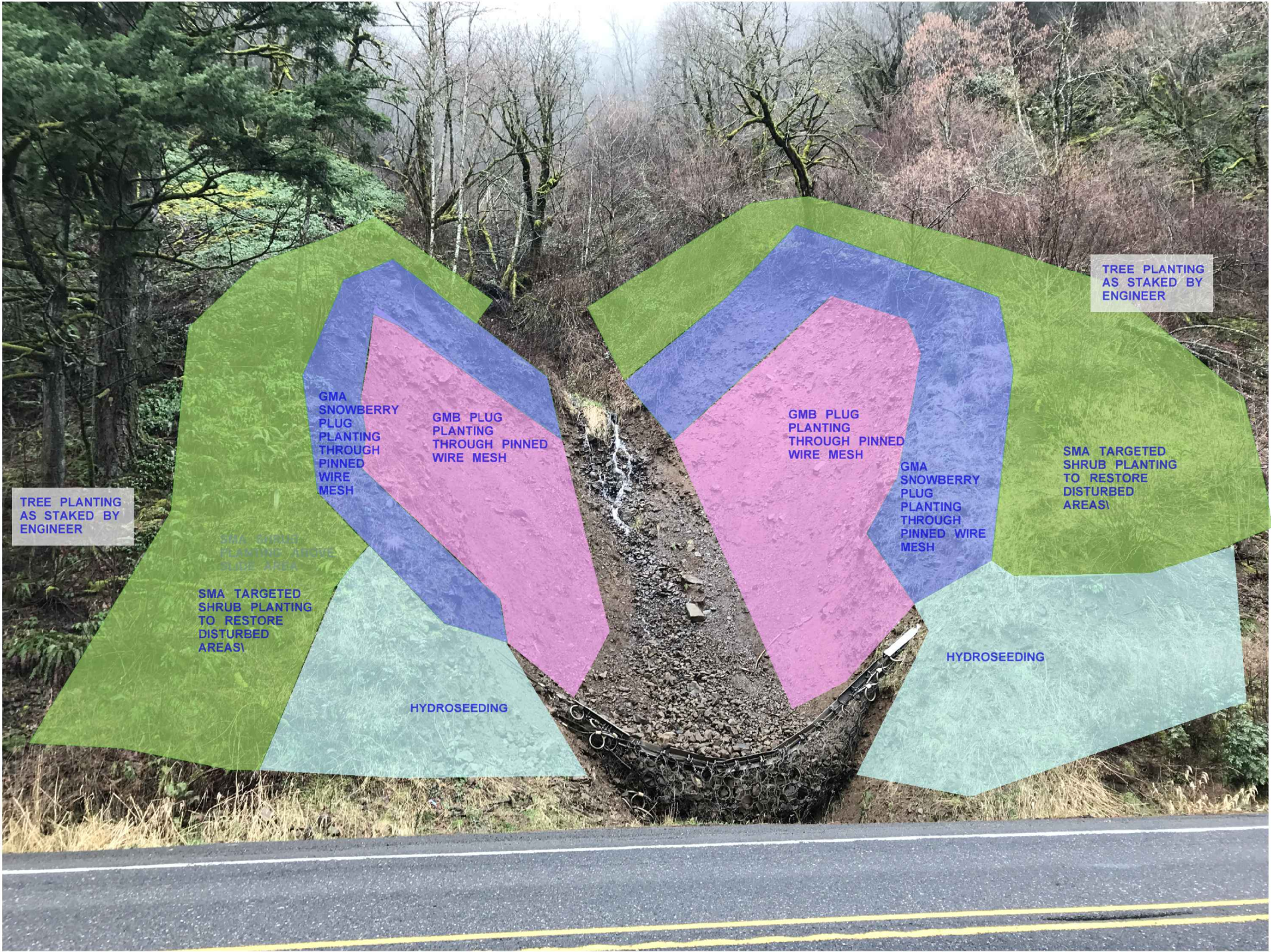
FILE NAME G:\Roadside\01_projects\014\11 Columbia R. Gorge Nat. Scenla Area\MP 25 vic Debris Flow Fence 2021\CAD\MT0666 SR14 Debris Fence Roadside PS 2.dgn										Plot 1	
TIME 2:47:22 PM						REGION NO. STATE		FED.AID PROJ.NO.		PLAN REF NO	
DATE 3/9/2023						10 WASH		NHPP-0014(088)		NB1	
PLOTTED BY knappb						JOB NUMBER				SEE SHEET CT1 DATE	
DESIGNED BY B. KNAPP						23X337					
ENTERED BY B. KNAPP						CONTRACT NO.		LOCATION NO.		DATE	
CHECKED BY D. CORLETT								XL 6376		DATE	
PROJ. ENGR. M. BRIGGS										DATE	
REGIONAL ADM. C. FRANCIS		REVISION		DATE		BY				DATE	

CONSTRUCTION NOTES

- 1 PLANT FROM EDGE OF AREA, NO SETBACK.
- 2 PLANT AS STAKED BY ENGINEER TO RESTORE DISTURBED AREAS AND ACCESS POINTS. QUANTITY OF SMA WILL DEPEND ON TOTAL AREA OF DISTURBANCE. INCREASED AREA OF DISTURBANCE WILL REQUIRE MORE PLANTS.
- 3 DO NOT PLANT INTO STRAW WATTLE. FLAG OR MARK STRAW WATTLE LOCATIONS PRIOR TO PLANTING.

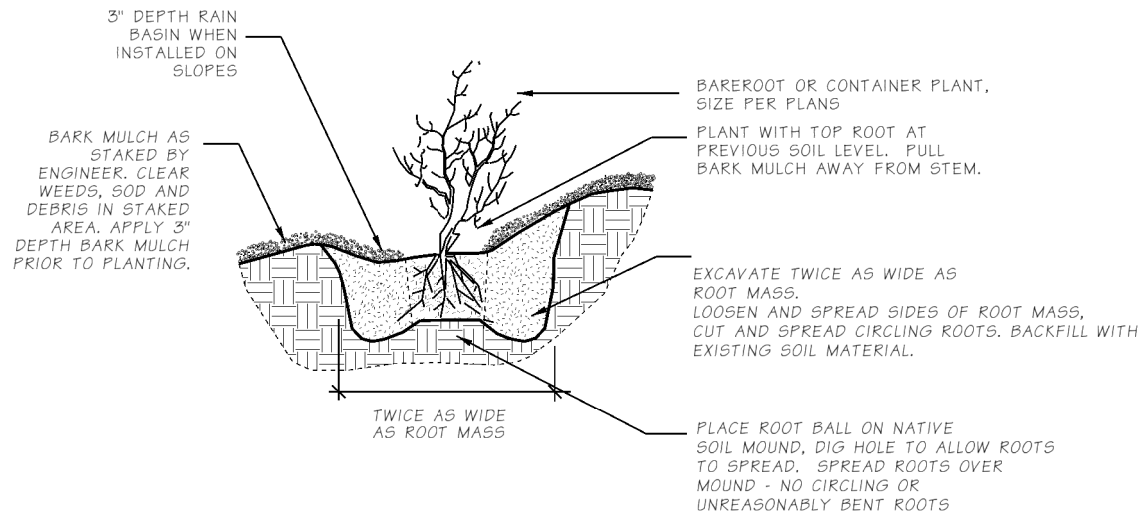


FILE NAME G:\Roadside\01_projects\014\11 Columbia R. Gorge Nat. 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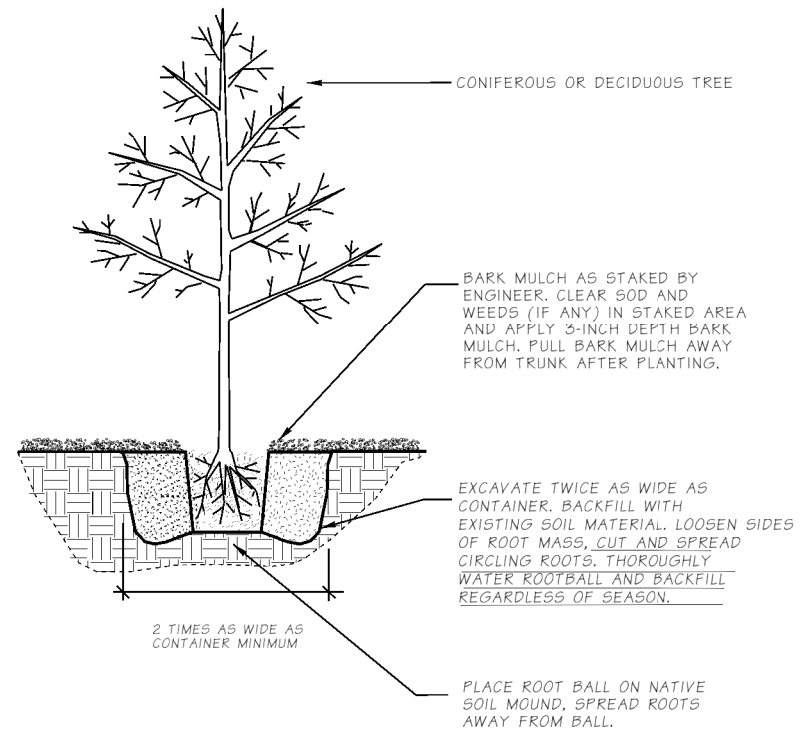
CONCEPT ILLUSTRATION. ACTUAL AREAS TO BE DETERMINED AS DIRECTED BY ENGINEER.

FILE NAME				G:\Roadside\01_projects\014\11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Debris Flow Fence 2021\CAD\MT0666 SR14 Debris Fence Roadside PS 2.dgn								Plot 1	
TIME				3:07:08 PM								PLAN REF NO	
DATE				3/14/2023								NB3	
PLOTTED BY				knappb								SHEET 18 OF 22 SHEETS	
DESIGNED BY				B. KNAPP									
ENTERED BY				B. KNAPP								PLANTING PLAN	
CHECKED BY				D. CORLETT									
PROJ. ENGR.				M. BRIGGS									
REGIONAL ADM.				C. FRANCIS									
REVISION			DATE	BY									



2
SLOPE AND BAREROOT PLANTING -SMA
NOT TO SCALE

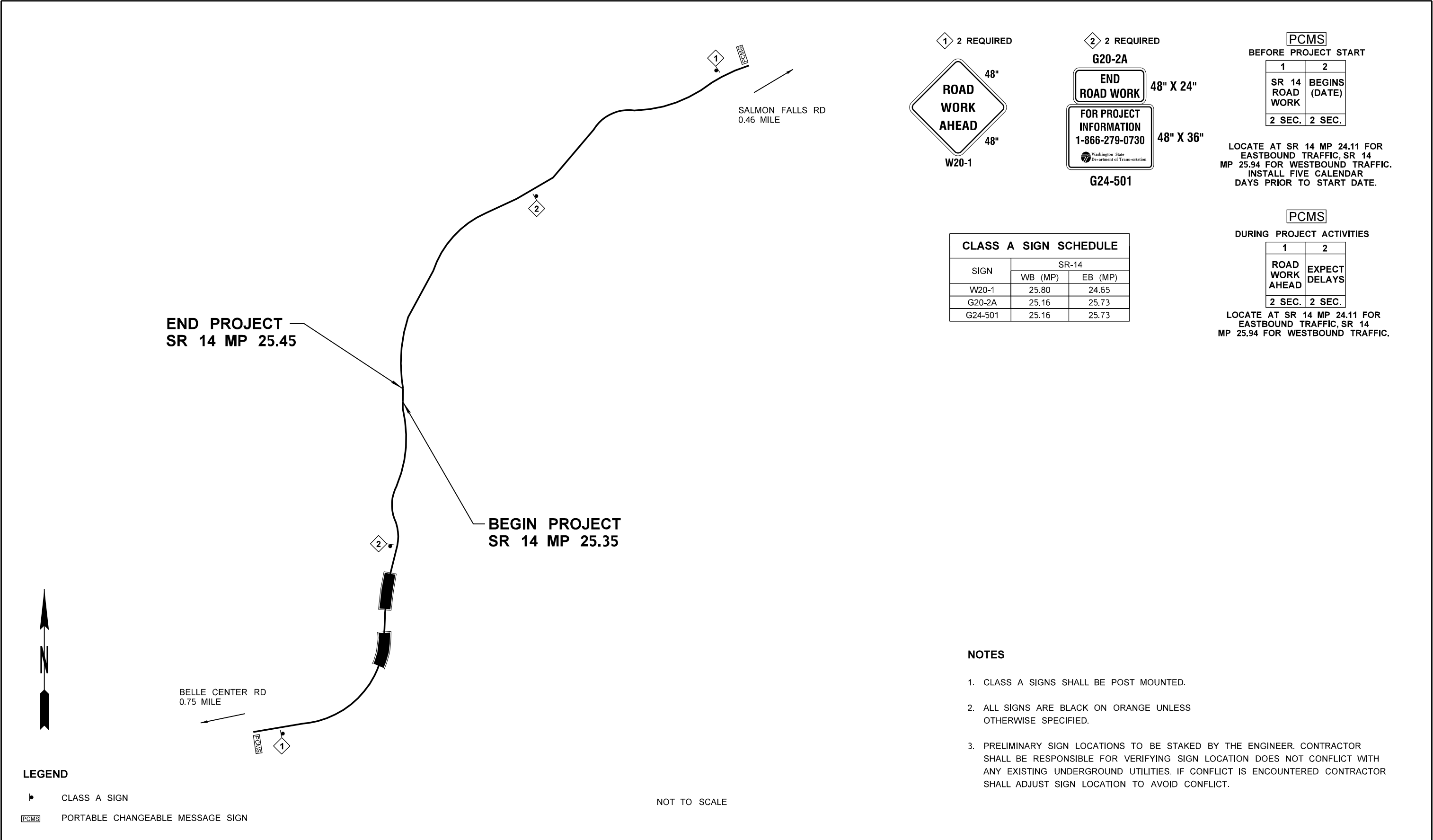
1



TREE PLANTING
NOT TO SCALE

2

FILE NAME G:\Roadside\01_projects\014\11 Columbia R.Gorge Nat.Scenia Area\MP 25 vic Debris Flow Fence 2021\CAD\MT0666 SR14 Debris Fence Roadside PS 2.dgn										REGION NO. STATE		FED.AID PROJ.NO. NHPP-0014(088)		SEE SHEET CT1 DATE	P.E. STAMP BOX	DATE		SR 14 1 MILE W OF SALMON FALLS RD REPAIR DEBRIS FENCE RE-ADVERTISEMENT PLANTING PLAN	Plot 1 PLAN REF NO NB4 SHEET 19 OF 22 SHEETS											
TIME 2:54:25 PM				10	WASH																									
DATE 3/9/2023																														
PLOTTED BY knappb																														
DESIGNED BY B. KNAPP				JOB NUMBER		LOCATION NO. XL 6376																								
ENTERED BY B. KNAPP				23X337																										
CHECKED BY D. CORLETT				CONTRACT NO.																										
PROJ. ENGR. M. BRIGGS																														
REGIONAL ADM. C. FRANCIS																														
REVISION				DATE	BY																									



1 2 REQUIRED

48"

ROAD WORK AHEAD

48"

W20-1

2 2 REQUIRED

G20-2A

48" X 24"

END ROAD WORK

48" X 36"

FOR PROJECT INFORMATION
1-866-279-0730

Washington State
Department of Transportation

G24-501

PCMS

BEFORE PROJECT START

1	2
SR 14 ROAD WORK	BEGINS (DATE)
2 SEC.	2 SEC.

LOCATE AT SR 14 MP 24.11 FOR EASTBOUND TRAFFIC, SR 14 MP 25.94 FOR WESTBOUND TRAFFIC. INSTALL FIVE CALENDAR DAYS PRIOR TO START DATE.

CLASS A SIGN SCHEDULE		
SIGN	SR-14	
	WB (MP)	EB (MP)
W20-1	25.80	24.65
G20-2A	25.16	25.73
G24-501	25.16	25.73

PCMS

DURING PROJECT ACTIVITIES

1	2
ROAD WORK AHEAD	EXPECT DELAYS
2 SEC.	2 SEC.

LOCATE AT SR 14 MP 24.11 FOR EASTBOUND TRAFFIC, SR 14 MP 25.94 FOR WESTBOUND TRAFFIC.

- NOTES**
1. CLASS A SIGNS SHALL BE POST MOUNTED.
 2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE SPECIFIED.
 3. PRELIMINARY SIGN LOCATIONS TO BE STAKED BY THE ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SIGN LOCATION DOES NOT CONFLICT WITH ANY EXISTING UNDERGROUND UTILITIES. IF CONFLICT IS ENCOUNTERED CONTRACTOR SHALL ADJUST SIGN LOCATION TO AVOID CONFLICT.

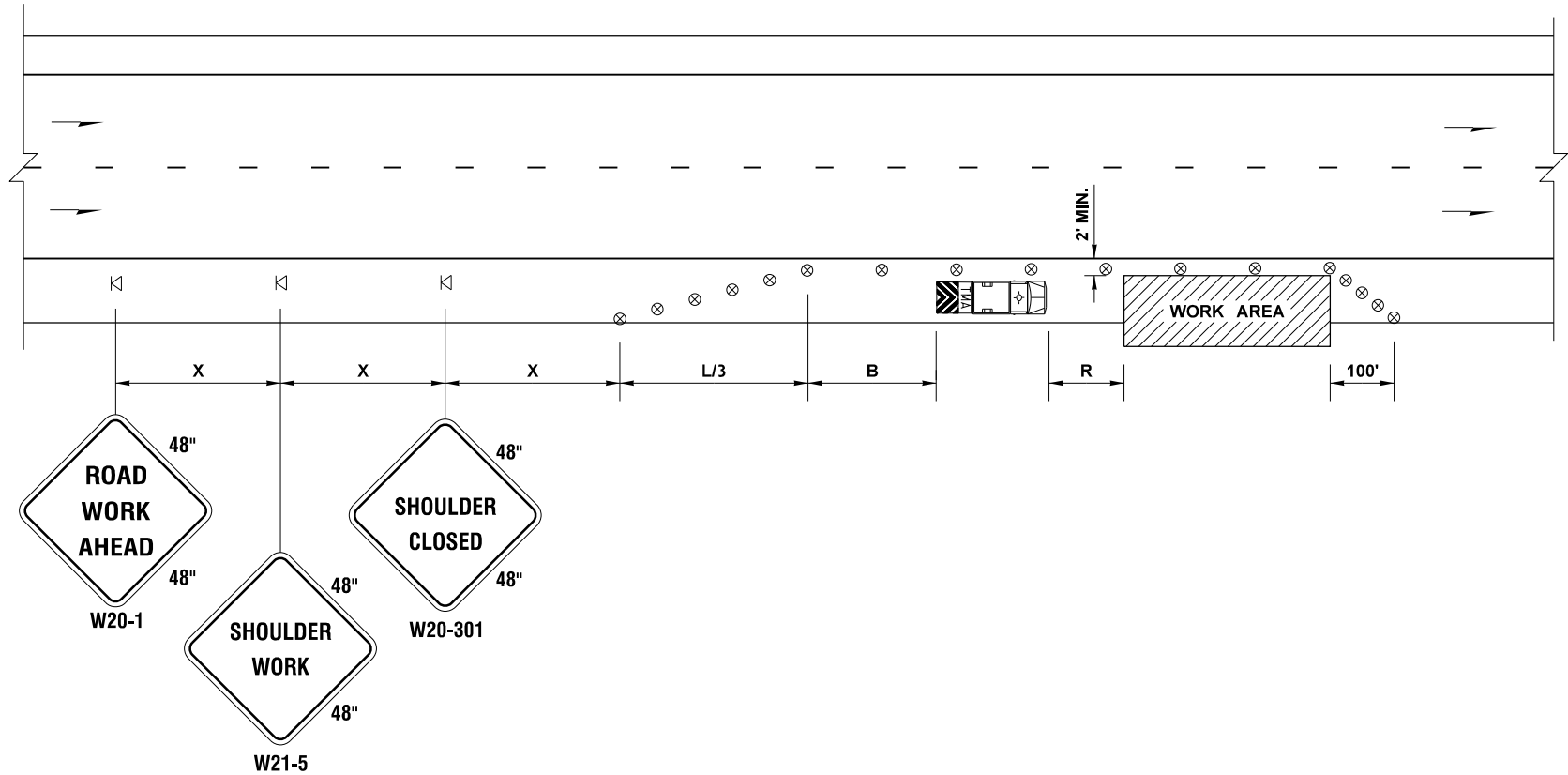
FILE NAME G:\444302\03 - Design\001421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\20-CADD-Plans\20-11 PS&E Sheets\XL6376_PS_TC.dgn										Plot 4
TIME 11:05:46 AM					REGION NO. 10	STATE WASH	FED.AID PROJ.NO. NHPP-0014(088)			PLAN REF NO CS1
DATE 2/28/2023					JOB NUMBER 23X337					SHEET 20 OF 22 SHEETS
PLOTTED BY PierceA					CONTRACT NO.	LOCATION NO. XL 6376	<div>Washington State Department of Transportation</div>			CLASS A SIGN PLAN
DESIGNED BY A. PIERCE										
ENTERED BY A. PIERCE										
CHECKED BY K. LEI										
PROJ. ENGR. M. BRIGGS										
REGIONAL ADM. C. FRANCIS	REVISION	DATE	BY				P.E. STAMP BOX	DATE	P.E. STAMP BOX	

MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)										
SHOULDER WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
8'	-	-	-	-	120	130	150	160	170	190
10'	-	-	-	-	150	170	190	200	220	240
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THEN 8'.										

SIGN SPACING = X (1)		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ±
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.						HOST VEHICLE WEIGHT > 22,000 lbs.				
< 45 MPH	45-55 MPH	> 55 MPH		< 45 MPH	45-55 MPH	> 55 MPH				
100'	123'	172'		74'	100'	150'				



LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- TRANSPORTABLE ATTENUATOR

SHOULDER CLOSURE - HIGH SPEED

NOT TO SCALE

NOTES

- NO ENCROACHMENT IN TRAVELED LANE. IF ENCROACHMENT IS NECESSARY, LANE SHALL BE CLOSED.
- DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT) O.C.
- ALL SIGNS ARE BLACK ON ORANGE.

FILE NAME G:\444302\03 - Design\01421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\20-CADD-Plans\20-11 PS&E Sheets\XL6376_PS_TC.dgn										Plot 6	
TIME 1:01:12 PM						REGION NO. 10	STATE WASH	FED.AID PROJ.NO. NHPP-0014(088)		PLAN REF NO TC2	
DATE 2/2/2023						JOB NUMBER 23X337				SHEET 22 OF 22 SHEETS	
PLOTTED BY piercea						CONTRACT NO.		LOCATION NO. XL 6376			
DESIGNED BY A. PIERCE								DATE		DATE	
ENTERED BY A. PIERCE								P.E. STAMP BOX		P.E. STAMP BOX	
CHECKED BY K. LEI											
PROJ. ENGR. M. BRIGGS											
REGIONAL ADM. C. FRANCIS											
REVISION					DATE	BY					